
28TH IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE (ICSM 2012)

RIVA DEL GARDA, TRENTO, ITALY
SEPTEMBER 24, 2012

GENERAL CHAIR: GRACE A. LEWIS
PROGRAM CO-CHAIRS: ANCA IONITA AND MARIN LITOIU
Welcome

GRACE A. LEWIS
CMU SOFTWARE ENGINEERING INSTITUTE,
USA
Goal for MESOCA 2012

- Create a focal point and an ongoing forum for researchers and practitioners to share results and open issues in the area of maintenance and evolution of service-oriented and cloud-based systems.

- Identify promising areas of research to address existing gaps and problems
Five Papers, Two Keynotes, One Invited Speaker and Three Organizers from Nine Countries

Brazil
Canada
Germany
Greece
Hungary
Romania
Switzerland
Spain
USA

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Abstract Tag Cloud

Interesting Observations

Multiple tags related to “foundation elements”: architecture, legacy, environment, model, framework, process, infrastructures, requirements

Multiple tags related to “execution aspects”: business, service, performance, security, SaaS, resources, security, support, runtime

The technology tag is quite small

Created using TagCrowd (http://tagcrowd.com/)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 09:00 – 09:15 | Welcome and Introduction  
Grace A. Lewis, Software Engineering Institute, USA |
| 09:15 – 10:30  | Opening Keynote: SOA and Cloud: Experiences from a Large Enterprise  
Carl Worms (CREDIT SUISSE AG – IT Strategy and Architecture, Switzerland) |
| 10:30 – 11:00  | Coffee Break                                                                                   |
| 11:00 – 12:30  | Paper Presentations - Chair: Marin Litoiu (York University, Canada)  
Cloudstep: A Step-by-Step Decision Process to Support Legacy Application Migration to the Cloud  
Patricia Beserra, Alessandro Camara, Rafael Ximenes, Adriano Albuquerque and Nabor Mendonca (University of Fortaleza (UNIFOR), Brazil)  
Linking Legacy Services to the Business Process Model  
Harry Sneed (ANECON GmbH, Hungary), Stephan Sneed and Stefan Schedl (Metasonic AG, Germany)  
Georgios Chatzikonstantinou and Kostas Kontogiannis (National Technical University of Athens, Greece) |
| 12:30 – 14:00  | Lunch                                                                                     |
### Agenda — Afternoon

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<td>14:00 – 15:30</td>
<td><strong>Paper Presentations</strong> - Chair: Anca Ionita <em>(University Politehnica of Bucharest, Rumania)</em></td>
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<td>CDOSim: Simulating Cloud Deployment Options for Software Migration Support</td>
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<td><em>Florian Fittkau, Sören Frey and Wilhelm Hasselbring (University of Kiel - Software Engineering Group, Germany)</em></td>
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<td>A Three-Dimensional Data Model in HBase for Large Time-Series Dataset Analysis</td>
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<td><em>Dan Han and Eleni Stroulia (University of Alberta, Canada)</em></td>
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<td><strong>Invited Presentation: Smart Applications on Cloud Infrastructures</strong></td>
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<td><em>Marin Litoiu (York University, Canada)</em></td>
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<td>15:30 – 16:00</td>
<td><strong>Coffee Break</strong></td>
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<td>16:00 – 17:15</td>
<td><strong>Closing Keynote: From Software as a Good to Software as a Service: Preparing</strong></td>
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<td>the Evolution of Software Products into the Cloud</td>
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<td><em>Leire Orue-Echevarria Arrieta (TECNALIA, Spain)</em></td>
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<td>17:15 – 17:30</td>
<td><strong>Summary and Wrap-Up</strong></td>
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<td><em>Grace A. Lewis, Software Engineering Institute, USA</em></td>
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Session Logistics

- **Session Format**
  1. Introduction
  2. Presentation
  3. DISCUSSION

- **Other Notes**
  - We expect a highly interactive session
  - We will be taking notes throughout the day and present a summary at the end
  - Talks and summary will be available in PDF format on the MESOCA web site (http://www.sei.cmu.edu/workshops/meso/2012/)
Special Thanks!

- **Publications Chair**
  - Cu Nguyen Duy, FBK, Italy

- **Program Committee**
  - Massimiliano Di Penta, University of Sannio, Italy
  - Hausi Müller, University of Victoria, Canada
  - Dana Petcu, West University of Timisoara, Romania
  - Mike Smit, York University, Canada
  - Harry Sneed, ANECON GmbH, Austria
  - Gabriel Tamura, Icesi University, Colombia
  - Scott Tilley, Florida Institute of Technology, USA
  - Norha Villegas, University of Victoria, Canada
  - Norman Wilde, University of West Florida, USA
  - Andreas Winter, Carl von Ossietzky University, Germany
Introductions

Briefly state your name, organization, research/work area and workshop expectations
Opening Keynote: SOA and Cloud — Experiences from a Large Enterprise

CARL WORMS
CREDIT SUISSE AG, SWITZERLAND
Carl Worms

- Enterprise architect in Credit Suisse Private Banking IT with focus on strategy and architecture of software engineering processes
- Received the Walter Masing Award of the German Society for Quality in 1993
- Joined Credit Suisse IT architecture in 1999 as leading methodologist
- Led the first software process improvement program from 2002-2005 and in 2007 the Quality Management organization
- Since 2008, as process architect for IT private banking, he has developed the roadmap for the next 10 years for application development processes, methods and tools
Paper Presentations

CHAIR: MARIN LITOIU
YORK UNIVERSITY, CANADA
Migrating to SOA and Cloud

- From a recent survey* of cloud adopters
  - 60% of respondents: cloud applications are better than those on premises in terms of **availability, TCO, time to value** (TTV)
  - 64% said they would have most of the applications in the public cloud in the next 3 years
- Challenges in cloud adoption
  - More than 75%: **cloud to cloud integration** and **mobility access** are the main challenges
  - Only 4% have integrated the cloud applications
  - What is the role of processes?
  - Is SOA the answer?
  - What is the role of policies?

**CIO Research Journal
Papers

- **Cloudstep: A Step-by-Step Decision Process to Support Legacy Application Migration to the Cloud**  
  Patricia Beserra, Alessandro Camara, Rafael Ximenes, Adriano Albuquerque and Nabor Mendonca (University of Fortaleza (UNIFOR), Brazil)

- **Linking Legacy Services to the Business Process Model**  
  Harry Sneed (ANECON GmbH, Hungary), Stephan Sneed and Stefan Schedl (Metasonic AG, Germany)

- **Policy Modeling and Compliance Verification in Enterprise Software Systems: A Survey**  
  Georgios Chatzikonstantinou and Kostas Kontogiannis (National Technical University of Athens, Greece)
Paper Presentations

ANCA IONITA
UNIVERSITY POLITEHNICA OF BUCHAREST,
ROMANIA
Challenges of Cloud Environments

- Selecting a cloud provider
- Virtual machines — configuration and deployment
- Runtime adaptation strategies
- Selecting a database management system
- Solutions for massive data repositories
- Performance and security with Cloud architectures
- Transforming existing applications
Papers

- **CDOSim: Simulating Cloud Deployment Options for Software Migration Support**
  Florian Fittkau, Sören Frey and Wilhelm Hasselbring (University of Kiel - Software Engineering Group, Germany)

- **A Three-Dimensional Data Model in HBase for Large Time-Series Dataset Analysis**
  Dan Han and Eleni Stroulia (University of Alberta, Canada)
Invited Presentation: Smart Applications on Cloud Infrastructures

MARIN LITOIU
YORK UNIVERSITY, CANADA
Marin Litoiu

- Professor at York University
- Prior to that a Senior Research Staff Member with the Centre for Advanced Studies, IBM Toronto Lab, where he led the research programs in Autonomic Computing, System Management and Software Engineering
- Was the Chair of the Board of CSER, a Canadian Consortium for Software Engineering Research and Director of Research for Centre of Excellence for Research in Adaptive Systems
- Research interests include autonomic computing; high performance software design; performance modeling, performance evaluation and capacity planning for distributed and real time systems
Closing Keynote: From Software as a Good to Software as a Service: Preparing the Evolution of Software Products into the Cloud

LEIRE ORUE-ECHEVARRIA ARRIETA
TECNALIA, SPAIN
Leire Orue-Echevarria Arrieta

- Lead for TECNALIA's “Migration to Cloud (SaaS)” product
- Certified in CMMI (SEI), RUP (IBM), and ITIL (OGC)
- Has worked in a variety of sectors across the EU in roles related to the entire software life cycle
- Has led multiple R&D, software quality and software development projects, including off-shore teams
- Current research areas are transition to cloud computing — migration of legacy software to the cloud, business models, and Service Engineering